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National Environmental/Energy Workforce Assessment. Pesticides and Toxicology Programs

National Field Research Center, Inc, Iowa City, IA

Prepared for

Environmental Protection Agency, Washington, DC Office of Research and
Development

Aug 79

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August 1979

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**NATIONAL
ENVIRONMENTAL/ENERGY
WORKFORCE ASSESSMENT
PHASE III**

**PESTICIDES
&
TOXICOLOGY
PROGRAMS**

1979

Conducted by:

NATIONAL FIELD RESEARCH CENTER, INC.



DISCLAIMER

This report has been reviewed by the Office of Research and Development, U.S. Environmental Protection Agency, and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

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16. ABSTRACT This directory, one of 18 volumes in Phase III of the National Environmental/Energy Workforce Assessment, provides information on post-secondary environmental education programs in the United States. Structured around information requests mailed to post-secondary education institutions, the directory provides the name and address of each institution listed, a contact person at each institution, the academic program title, and the degree offered at the institution (2-year, 4-year, etc.). Phase III includes twelve such directories of post-secondary programs: One each for air, noise, pesticides & toxicology, potable water, wastewater, radiation, solid waste, and energy; one for combined water/wastewater programs; and a composite volume on each of the three areas of environmental engineering/technology, environmental science/health, and environmental studies. In addition, Phase III includes the following six volumes: <u>Environmental Employment in Public Service Jobs Programs -- An Analysis of CETA Title VI FY 78 Projects</u>; <u>Salaries & Attendant Problems of Public Sector Environmental Employment</u>; <u>The Role of CETA in Direct Training and Employment</u>; <u>Private Sector Training Activities</u>; <u>Problems in Environmental Education & Training</u>; and <u>the Workforce Planning Bibliography</u>. Phase I of the <u>Assessment</u> evaluated workforce needs for pollution control and abatement in the U.S. during 1976-81. Phase II gathered data on training and educational programs in the post-secondary environmental education field as of 1978.			
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**NATIONAL
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WORKFORCE ASSESSMENT
PHASE III**

Conducted by:

NATIONAL FIELD RESEARCH CENTER, INC.

Under Grant from:

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1979

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INTRODUCTORY NOTE

The National Environmental/Energy Workforce Assessment, Phase III, was conducted by National Field Research Center, Inc., with main offices in Iowa City, Iowa. The following personnel have had primary responsibility for the development of the project reports.

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TABLE OF CONTENTS

	page
ACKNOWLEDGEMENT	vi
PREFACE	vii
FOREWORD	viii
PROJECT BACKGROUND	1
PROJECT METHODOLOGY	4
INTRODUCTION	6
PROGRAMS, ALPHABETIZED BY INSTITUTION	ii
APPENDIX	
PROGRAMS, LISTED BY STATE	79

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The volumes of post-secondary environmental and energy programs were developed under the auspices and guidance of the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. as part of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, PHASE III. Sincere appreciation is extended to the many individuals and institutions who assisted in the identification and description of the programs, thus generously contributing to the success of this national project. Of particular importance are those individuals identified as contact persons in the program entries.

A special word of appreciation is extended to Mr. J. Donald Cook, Chief, Workforce Coordination Team, U.S. Environmental Protection Agency, Washington, D.C., and to the Manpower Officers and Workforce Coordinators from each of the U.S. Environmental Protection Agency Regional Offices.

PREFACE

This volume includes all identified post-secondary education and/or training programs which have been selected as pertinent to one media-specific area (i.e., air, wastewater, etc.). For ease of handling, the programs are presented in alphabetical order according to the name of the institution. The Appendix, however, presents a listing of the institutions by state, with reference to page numbers.

This portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was conducted for the U.S. Environmental Protection Agency, by the National Field Research Center, Inc. with offices located in Iowa City, Iowa; Atlanta, Georgia; Denver, Colorado; and Washington, D.C.

FOREWORD

Information for this portion of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, was compiled through extensive review of catalogues from post-secondary education institutions listed in Post-Secondary Education, Education Directory, Colleges & Universities, 1976-77. All program entries were sent to the institutions for review and correction. In most cases, the program entries were returned after being reviewed. Those entries which were not returned have been indicated by an asterisk in front of the program title.

This twelve-volume report contains program entries from junior colleges, vocational/technical training institutes, community colleges, four-year colleges, and universities, as well as other training institutions. Programs are representative of all levels, from academic certification through doctoral degrees. The environmental pollution control areas of air, noise, pesticides, potable water, radiation, solid waste, wastewater and energy were surveyed. In addition, some programs which were not readily categorized

into media-specific areas (i.e., radiation, air, etc.) or which represented multiple media areas in curricula content, have been presented under the title of composite.

Readers are advised that material from the Acknowledgement through the Project Methodology is identical in all twelve program volumes. The reason for such duplication rests with the division of volumes into media specific areas, which increases probability that individuals will only read a given volume of special interest.

Readers are further advised that the purpose of these volumes is to point the direction for further information. Courses, programs and individuals are all subject to change over a given period of time. The inclusion of a specific program does not assure that the program is conducted every year nor does it assure that graduates meet specialized occupational requirements. Readers with specific questions should correspond directly with contact persons.

PROJECT BACKGROUND

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, conducted by the National Field Research Center under the direction of the U.S. Environmental Protection Agency, is an effort to meet the national concern for the preservation and conservation of our country's resources. The project was developed as a multi-phase direct inquiry into the availability and readiness of our environmental workforce.

In keeping with the objective of the assessment, this national effort was directed at environmental/energy workforce requirements, national environmental education preparedness, and the functional relationship between the two.

Phase I of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT focused upon the development of "workforce demand projections" through 1982 for all public environmental agencies. This on-site assessment, which was carried out in all 50 states, Puerto Rico and the Virgin Islands, culminated in a numerical profile of the growth patterns and workforce needs at national and state levels. Stratification of the overall definition of "environmental occupation" into seven

distinct vocational areas enhanced even further the applicability of the results. In addition to this public sector workforce assessment, Phase I included an overview analysis of private sector needs and a brief review of selected environmental educational programs.

Phase II of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was structured around an intensive on-site inventory of representative environmental educational offerings on a national scale. The primary objective of this portion of the project was to collect and aggregate data on training and educational programs in both the post-secondary education field and in the private sector and to do so by environmental area. Specifically, the study was designed to provide an overview of environmentally related post-secondary education programs, their program structures, representative course offerings, employment history of the graduates, and the faculty structures. Additionally, information was collected on program requirements and program projections regarding faculty and students.

Phase III of the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT was completed in mid-1979. In an effort to draw together the relationship between Phase I and Phase II

of the project, several major areas were selected and monographs developed. In an effort to assist Federal and State planners, an environmental/energy manpower bibliography was developed and annotated. A final portion of the Phase III involved the identification of all environmental/energy post-secondary education programs as compared to the Phase I and Phase II which presented representative programs. This compendium of post-secondary environmental/energy programs was presented in media-specific volumes (i.e., Air, Potable Water, Solid Waste, etc.). While more extensive research may be advisable, it is anticipated that the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT in its entirety represents the most comprehensive research effort to date regarding environmental/energy workforce requirements and the educational community's ability to meet these needs.

PROJECT METHODOLOGY

The NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase III, includes several components, one of which is made up of the directories of post-secondary environmental/energy programs. Utilizing the Post-Secondary Education, Education Directory, Colleges and Universities, 1976-77, requests were made of the 3,075 institutions and in addition any new institutions which could be identified. All environmental programs were categorized according to media areas, i.e., air, water, radiation, etc. The program entry information was sent to the contact person for corrections, deletions and general review. The contact persons were requested to return the reviewed information to project personnel. In the majority of cases, the information was returned by the institutions. Those program entries which were not returned have been indicated with an asterisk in front of the program title.

In total, 1,359 programs are presented in these volumes. All 50 states, the District of Columbia, Puerto Rico and the Virgin Islands are represented in the program entries. The introductions of each

volume present the details of selection criteria, geographic location, etc., of the programs presented in that specific environmental area.

The directories have been prepared by media specific area. The volumes which make up this portion of the project are:

- * AIR
- * NOISE
- * PESTICIDES & TOXICOLOGY
- * POTABLE WATER
- * WASTEWATER
- * WATER/WASTEWATER
- * RADIATION
- * SOLID WASTE
- * ENERGY
- * COMPOSITE: Environmental
Engineering/Technology
- * COMPOSITE: Environmental
Science/Health
- * COMPOSITE: Environmental
Studies

INTRODUCTION

The Federal Insecticide, Fungicide, and Rodenticide Act of 1972, as amended by PL 94-140 of 1975 forbids anyone to use a pesticide contrary to label instruction, gives the U. S. Environmental Protection Agency (EPA) authority to restrict a pesticide so that only people trained in approved programs may apply them, and extends control to products sold intrastate. The EPA may suspend a registration if it is determined that use of a particular pesticide is an imminent hazard to human health. States are carrying out enforcement responsibilities as well as providing training and certification services to applicators of restricted pesticides.

Further regulation of potentially hazardous synthetic chemicals (excluding those used only in pesticides, food, food additives, drugs, and cosmetics) is provided by the Toxic Substances Control Act of 1976 (TSCA). This federal law authorizes EPA to obtain production and test data from industry on selected chemical substances and mixtures, and to regulate the substances when needed. The law is specifically designed to improve the understanding of more than 30,000 chemical substances in commerce (a thousand new ones may

be introduced each year), and to provide controls on any chemical which may threaten human health or the environment.

It is clear that the topics of pest management and toxicology demand exacting technical and scientific skills, expertise, and experience. As the pressure grows to maintain high crop yields, while keeping the level of pollutants and toxicants within the federal guidelines, the need for appropriate academic, research, and vocational education and training multiplies.

This directory expands upon the NATIONAL ENVIRONMENTAL/ENERGY WORKFORCE ASSESSMENT, Phase I and Phase II data of the pesticides control workforce and educational/training summary. In total, 135 pesticides or toxicology program entries are presented in this volume. The programs represent certification training through doctoral level offerings. Table I illustrates the number and types of degrees presented in this volume.

TABLE I
PESTICIDES/TOXICOLOGY PROGRAMS
 Numbers and Types of Degree Offerings

Level of Degree	No. of Programs	% of Total
Certificate	1	.75%
Certificate; Two-Year	2	1.5 %
One-Year	0	0
One-Year; Two-Year	1	.75%
Two-Year	18	13.3 %
Two-Year; Four-Year; Graduate	1	.75%
Four-Year	29	21.5 %
Four-Year; Graduate	37	27.4 %
Graduate	45	33.3 %
N/A	2	.75%
TOTAL	135	100.0%

As may be seen in the table above, the majority of the programs (approximately 82%) are conducted at the four-year and graduate level, although 87% of the institutions offer bachelors and graduate degrees while 13.3% are two-year programs.

The 135 program entries presented herein represent 43 states. Ten southwestern states currently offer 43 or 31% of the programs, while 42 programs or 30% are currently on-going in 13 southeastern states. Five northwestern states are currently responsible for 13 programs (9%), while 41 programs (30%) are being administered by 15 northeastern states.

Criteria which were utilized in selection of pesticides programs included, in addition to the requirement of five or more course offerings: (1) program in fundamental science (biology, botany, chemistry, zoology); (2) courses in anatomy and physiology of target pests (micology, entomology); (3) courses in management of pest population or plant disease, weed, insects or plant disease control (integrated pest management, economic entomology, pesticide application); (4) environmental implication (i.e., urban, domestic environmental health). The criteria for toxicology programs included: 1) courses in fundamental science; 2) courses in fundamentals of toxicology; and 3) courses in effects of toxic substances in the environment.

All program entries were sent to the institutions for review and/or corrections. Of the total 135

programs 73% were returned to project personnel while 27% were not. Those programs which were not returned include 21 pesticides programs and 16 toxicology programs, and are indicated in this volume by an asterisk in front of the program title.

The following pesticide and toxicology programs are presented in alphabetical order in accordance with the institution name. For a listing of programs by state, the reader is referred to the Appendix.

PROGRAMS, ALPHABETIZED BY INSTITUTION

ALABAMA A & M UNIVERSITY

Normal, Alabama 35762

**Catalog Year
1976-78**

contact person:

**Dr. Alice C. Jenkins, Chairperson
Department of Biology
(205) 859-7011**

***program title: Undesignated**

emphasis: Pest management and plant protection

department: Biology

degree: 4 year

ANSON TECHNICAL INSTITUTE

P.O. Box 68

Ansonville, North Carolina 28007

**Catalog Year
1976-78**

contact person:

**Dr. James A. Keyzer, Dean
Technology
(704) 826-2575**

program title: Undesignated

emphasis: Crop protection

department: Agriculture

degree: 2 year

ARIZONA STATE UNIVERSITY

Tempe, Arizona 85281

**Catalog Year
1975-77**

contact person:
Dr. Donald H. Alvarado
Chairperson
(602) 965-3571

program title: **Entomology**
emphasis: **Ecology and biology of insects**
department: **Zoology**
degree: **4 year**
comments: **Program is not specifically a pesticides program;
included in program are pesticides research and/or training
but program is not restricted to these areas.**

BROWARD COMMUNITY COLLEGE

3501 S.W. Davie Road
Fort Lauderdale, Florida 33314

**Catalog Year
1976-77**

contact person:
Mr. Dudley Palmer, Head
Pest Control Technology Program
(305) 581-8700

program title: **Pest Control Technology**
department: **Division of Mathematics and Science**
degree: **2 year**

CALIFORNIA STATE UNIVERSITY AT NORTHRIDGE

**18111 Northhoff Street
Northridge, California 91330**

**Catalog Year
1977-78**

contact person:
**Dr. Brad T. Garber
Director
(213) 885-1200**

***program title: Industrial Hygiene and Toxicology
department: Health Science Department
degree: 4 year
Graduate**

CENTRAL TECHNICAL COMMUNITY COLLEGE

**Box 1024
Hastings, Nebraska 68901**

**Catalog Year
1977-78**

contact person:
**Mr. Dean Blaha, Chairperson
Agriculture/Environmental Technology
Division
(402) 463-9811**

**program title: Agriculture Technology
department: Agriculture Technology
degree: 1 year
2 year**

CLACKAMAS COMMUNITY COLLEGE

**19600 South Molalla Avenue
Oregon City, Oregon 97045**

**Catalog Year
1978-79**

contact person:

**Mr. Davis Myers, Department Chairperson
Agriculture
(503) 656-2631**

program title: **Pesticides and Pesticide Licensing**

emphasis: **Plant pests, diseases and pesticides, weed
and plant pest identification**

department: **Agriculture**

degree: **2 year**

comments: **Two year program which prepares students for
transfer to a four year program at Oregon State University.**

CLATSOP COMMUNITY COLLEGE

Astoria, Oregon 97103

**Catalog Year
1976-77**

contact person:

**Dr. Ralph L. Seefeld, Assistant Dean
Of Instruction & Division Director
(503) 325-0910**

program title: **Pest Management for Plant Protection**

department: **College transfer curriculum**

degree: **2 year**

comments: **Two year program for students wishing to
transfer to Oregon State University in Pest Management.**

CLEMSON UNIVERSITY

Clemson, South Carolina 29631

Catalog Year

• 1977-78

contact person:

Dr. S. B. Hays

Head of Department

(803) 656-3111

program title: Pest Management

department: Entomology and Economic Zoology

degree: Graduate

CLEVELAND STATE UNIVERSITY

**2065 Adelbert Road
Cleveland, Ohio 44106**

Catalog Year

1978

contact person:

Dr. Irving Sunshine

Professor

(216) 687-2000

***program title: Undesignated**

department: Toxicology

degree: Graduate

COLORADO STATE UNIVERSITY

Fort Collins, Colorado 80523

**Catalog Year
1977-78**

**contact person:
Dr. C. L. Ralph
Chairperson
(303) 491-7011**

**program title: Entomology
department: Zoology and Entomology
degree: 4 year
Graduate**

CONSUMNES RIVER COLLEGE

**8401 Center Parkway
Sacramento, California 95823**

**Catalog Year
1977-78**

**contact person:
Mr. Neal W. Cook
Program Director
(916) 421-1000**

**program title: Pest Control Technology
emphasis: Weed control technology; pest control
technology; plant science protection
department: Agriculture
degree: 2 year
comments: Prepares students for state licensing and employ-
ment in the chemical and pest industries.**

DELGADO COLLEGE

**615 Park Avenue
New Orleans, Louisiana 70119**

**Catalog Year
1977-78**

contact person:

**Dr. Suchil K. Gilotra, Professor
Chairperson, Environmental Health Technology
(504) 486-7393**

program title: Urban Pest Management

department: Environmental Health Technology

**degree: 2 year
Certificate**

DRAKE UNIVERSITY

**College of Pharmacy
25th and University
Des Moines, Iowa 50311**

**Catalog Year
1978**

contact person:

**Dr. Gary D. Russi, Associate Professor
Pharmacology and Toxicology
(515) 271-2172**

program title: Toxicology

**emphasis: Survey of toxicology for pharmacy
students**

department: Pharmacology

degree: Graduate

comments: Students receive a B.S. in Pharmacy also.

DUKE UNIVERSITY

**School of Forestry and Environmental
Studies**

**Duke Station
Durham, North Carolina 27706**

**Catalog Year
1978-79**

contact person:

**Dr. Benjamin A. Jayne, Dean
School of Forestry and Environmental
Studies
(919) 684-2135**

program title: Forest Protection

**emphasis: Population control of insects and
pathogens in southeastern pine and
hardwood forests**

department: Resource Science

degree: Graduate

DUKE UNIVERSITY

Durham, North Carolina 27706

**Catalog Year
1978**

contact person:

**Dr. Roger Fabian Anderson
Professor
(919) 648-8111**

program title: Entomology

emphasis: Forest protection

department: Forestry and Environmental Studies

degree: Graduate

ELGIN COMMUNITY COLLEGE

**1700 Spartan Drive
Elgin, Illinois 60120**

**. Catalog Year
1976-77**

**contact person:
Mr. John Gualdoni, Dean
Technical - Vocational Education
(312) 697-1000**

***program title: Agrucultural Chemicals Technology
emphasis: Application
department: Technical - Vocational Program
degree: 2 year**

FERRIS STATE COLLEGE

Big Rapids, Michigan 49307

**Catalog Year
1976-78**

**contact person:
Mr. Richard Hunter
School of Allied Health
(616) 796-9971**

**program title: Pesticide Technology
department: Pesticide Technology
degree: 2 year**

FLORIDA A & M UNIVERSITY

Tallahassee, Florida 32307

**Catalog Year
1976-77**

contact person:
**Dr. Walter L. Johnson, Professor
Division Head
(904) 222-8030**

program title: **Entomology and Structural Pest Control**
department: **Division of Rural Development**
degree: **4 year**

GADSDEN STATE JUNIOR COLLEGE

**George Wallace Drive
Gadsden, Alabama 35903**

**Catalog Year
1976-77**

contact person:
**Mr. James Pitchford
Division Chairperson
(205) 546-0484**

program title: **Pest Control Technology**
emphasis: **Pesticide application and management
training**
department: **Division of Vocational - Technical
Education**
degree: **2 year**

**HARVARD UNIVERSITY
SCHOOL OF PUBLIC HEALTH**

**665 Huntington Avenue
Boston, Massachusetts 02115**

*** Catalog Year
1977-78**

contact person:

**Dr. Rudolph Jaeger, Assistant Professor
Toxicology
(617) 732-1178**

program title: **Toxicology**

emphasis: **Environmental health, biological effects
of air pollutants, of pesticides and
radiation**

department: **Physiology**

degree: **Graduate**

IDAHO STATE UNIVERSITY

**College of Pharmacy
Pocatello, Idaho 83209**

**Catalog Year
1977**

contact person:

**Dr. Gary E. Isom, Assistant Professor
Pharmacology
(208) 236-0211**

***program title: Industrial Toxicology**

department: **Pharmacology**

degree: **Graduate**

INDIANA UNIVERSITY

School of Medicine
1100 W. Michigan St.
Indianapolis, Indiana 46202

Catalog Year
1978

contact person:

Dr. Robert B. Forney, Committee Chair-
person
Professor of Pharmacology & Toxicology
(317) 264-7824

program title: Toxicology
emphasis: Basic toxicology
department: School of Medicine
degree: Graduate

KANSAS STATE UNIVERSITY

Comparative Toxicology Laboratory Catalog Year
College of Veterinary Medicine 1978
Manhattan, Kansas 66506

contact person:

Dr. F. W. Oehme, Director
Comparative Toxicology Laboratory
Professor of Toxicology, Medicine &
Physiology
(913) 532-5679

program title: Environmental Toxicology
emphasis: Comparative toxicities due to foreign
chemicals, environmental effects to
man and animals
department: Surgery and Medicine
degree: 4 year
Graduate

KANSAS STATE UNIVERSITY

Manhattan, Kansas 66506

**Catalog Year
1978-79**

**contact person:
Dr. Richard J. Sauer, Head
Department Head
(913) 532-6154**

**program title: Crop Protection Curriculum or Entomology
department: Entomology
degree: 4 year
Graduate
comments: Program emphasis at graduate level.**

LOYOLA UNIVERSITY OF CHICAGO

**Stritch School of Medicine
2160 South First Avenue
Maywood, Illinois 60153**

**Catalog Year
1977-78**

**contact person:
Dr. Joseph R. David
Professor
(312) 670-3000**

***program title: Environmental Toxicology
department: Pharmacology
degree: Graduate**

LOUISIANA STATE UNIVERSITY

Baton Rouge, Louisiana 70803

**Catalog Year
1977-78**

contact person:

**Dr. Dale L. Newsom, Head
Department of Entomology
(504) 388-2111**

***program title: Entomology (Science)**

department: Entomology

degree: 4 year

LOUISIANA STATE UNIVERSITY

Baton Rouge, Louisiana 70803

**Catalog Year
1977-78**

contact person:

**Dr. Dale L. Newsom, Head
Department of Entomology
(504) 388-2111**

***Program title: Plant and Animal Protection**

department: Entomology

degree: 4 year

MEHARRY MEDICAL COLLEGE

**1005 18th Avenue North
Nashville, Tennessee 37208**

**. Catalog Year
1975-76**

contact person:

**Dr. Charles D. Proctor, Professor
Neuropharmacology & Department
Chairperson
(615) 327-6510**

program title: **Toxicology**

department: **Pharmacology**

degree: **Graduate**

MICHIGAN STATE UNIVERSITY

East Lansing, Michigan 48824

**Catalog Year
1978**

contact person:

**Dr. A. W. A. Brown, Director
Pesticide Research Center
(517) 355-1855**

*program title: **Pesticide Research Center**

department: **Pesticide Research Center**

comments: **No degree is offered. Center conducts research
and teaching and is currently developing an undergraduate
curriculum in pest management.**

MICHIGAN STATE UNIVERSITY

**203 Pesticide Research Center
East Lansing, Michigan 48824**

**Catalog Year
1977-78**

**contact person:
Program Coordinator
(517) 355-1855**

***program title: Pest Management for Plant Protection
department: Colleges of Agriculture and Natural
Resources and Natural Science
degree: 4 year**

MISSISSIPPI STATE UNIVERSITY

Mississippi State, Mississippi 39762

**Catalog Year
1978-79**

**contact person:
Dr. Charles E. Lindley, Dean
College of Agriculture and Home
Economics
(601) 325-3221**

***program title: Agriculture or Science Option
emphasis: Pest management
department: Entomology
degree: 4 year**

MISSISSIPPI STATE UNIVERSITY

**Mississippi State, Mississippi 39762 Catalog Year
1978-79**

contact person:

**Dr. Woodrow W. Hare, Head
Plant Pathology and Weed Science
(601) 325-3138**

program title: **Specialized Training in Pest Management**

department: **Entomology; Plant Pathology and Weed
Science**

degree: **Graduate**

NEW MEXICO STATE UNIVERSITY

**Las Cruces, New Mexico 88003 Catalog Year
1977-78**

contact person:

**Dr. Ellis Huddleston, Department Head
Botany and Entomology
(505) 646-3225**

program title: **Pest Management**

department: **Botany and Entomology**

degree: **4 year**

NORTH CAROLINA STATE UNIVERSITY

Raleigh, North Carolina 27607

**Catalog Year
1976-78**

contact person:

Chairperson

Toxicology Curriculum

(919) 737-2276

program title: Toxicology

**emphasis: Biochemical & environmental
toxicology**

department: Interdepartmental

degree: Graduate

NORTH CAROLINA STATE UNIVERSITY

Raleigh, North Carolina 27611

**Catalog Year
1977-79**

contact person:

Dr. Blanche C. Haning, Coordinator

Pest Management Teaching Program

(Department of Plant Pathology)

(919) 737-2721

program title: Pest Management For Crop Protection

**department: Interdepartmental, School of Agriculture
and Life Sciences**

degree: 4 year

Graduate

NORTH CAROLINA STATE UNIVERSITY

**Raleigh, North Carolina 27607 • Catalog Year
1977-79**

contact person:

**Dr. H. B. Craig, Associate Director
Academic Affairs and Director of the
Agricultural Institute
(919) 737-2748**

program title: **Agricultural Pest Control**

department: **Agricultural Institute, School of
Agriculture and Life Sciences**

degree: **2 year**

NORTH DAKOTA STATE UNIVERSITY

**College of Pharmacy Catalog Year
Fargo, North Dakota 58102 1976-78**

contact person:

**Dr. N.G. S. Rao, Professor
Toxicology
(701) 237-7876**

program title: **Forensic Toxicology**

department: **Pharmacology and Toxicology**

degree: **4 year
Graduate**

NORTH DAKOTA STATE UNIVERSITY

Fargo, North Dakota 58102

**Catalog Year
1976-78**

contact person:

**Dr. John Schulz, Professor
Chairperson of Entomology
(701) 237-8011**

***program title: Entomology (Chemical Application
Option)**

department: Entomology

degree: 4 year

NORTH SHORE COMMUNITY COLLEGE

3 Essex Street

Beverly, Massachusetts 01915

**Catalog Year
1977-78**

contact person:

**Dr. Bertram L. Blumenkrantz, Chairperson
Division of Science & Mathematics
(617) 927-4850**

program title: Natural Resource Management Program

**emphasis: Pest control; land use planning;
watershed management**

**department: Studies in Environmental Technology,
Essex Agricultural and Technical
Institute**

degree: 2 year

NORTHEAST LOUISIANA UNIVERSITY

**School of Pharmacy
Monroe, Louisiana 71201**

**. Catalog Year
1977-78**

contact person:
**Dr. T. H. Eickholt
Professor of Pharmacy
(318) 342-2011**

*program title: **Toxicology**
department: **Pharmacology and Toxicology**
degree: **4 year
Graduate**

NORTHEASTERN OKLAHOMA A & M COLLEGE

**Second and I Streets, N.E.
Miami, Oklahoma 74354**

**Catalog Year
1976-77**

contact person:
**Dr. Harry Synar
Chairperson
(918) 542-8441**

*program title: **Entomology (Plant Protection)**
department: **Agricultural Science and Industry Division**
degree: **2 year**

OHIO STATE UNIVERSITY

**College of Medicine
333 West Tenth Street
Columbus, Ohio 43210**

**Catalog Year
1976-77**

**contact person:
Dr. Daniel Couri, Director
Toxicology Division
(614) 422-0168**

**program title: Toxicology
department: Pharmacology
degree: Graduate**

OKLAHOMA STATE UNIVERSITY

Stillwater, Oklahoma 74074

**Catalog Year
1976-77**

**contact person:
Dr. D. C. Peters
Professor and Head
(405) 624-5000**

***program title: Entomology
department: Entomology
degree: 4 year
Graduate**

OKLAHOMA STATE UNIVERSITY

Stillwater, Oklahoma 74074

**Catalog Year
1976-77**

contact person:

Dr. John E. Thomas

Professor and Head of Department

(405) 624-5645

program title: **Plant Pathology**

department: **Plant Pathology**

degree: **4 year**

Graduate

OREGON STATE UNIVERSITY

School of Pharmacy

Corvallis, Oregon 97331

**Catalog Year
1977-78**

contact person:

Dr. Robert E. Larson, Associate Professor

Pharmacy

(503) 754-0123

* program title: **Environmental Toxicology**

department: **Pharmacology and Toxicology Dept.**

degree: **4 year**

Graduate

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331

**Catalog Year
1977-78**

contact person:
Dr. Thomas C. Moore
Chairperson of the Department
(503) 754-0123

program title: **Pest Management for Plant Protection**

department: **Entomology**

degree: **4 year**

OREGON STATE UNIVERSITY

Corvallis, Oregon 97331

**Catalog Year
1977-78**

contact person:
Dr. John D. Lattin
Acting Department Chairperson
(503) 754-0123

program title: **Entomology**

department: **Entomology**

degree: **4 year**
Graduate

PENNSYLVANIA STATE UNIVERSITY

106 Patterson Bldg.
University Park, Pennsylvania 16802

Catalog Year
1977-78

contact person:
Dr. Beckford F. Coon
Head of the Department
(814) 865-1895

program title: Entomology
emphasis: Includes chemistry of pesticides,
management of insect pest population.
department: College of Agriculture/Entomology
degree: 4 year
Graduate

PITT TECHNICAL INSTITUTE

P.O. Drawer 7007
Greenville, North Carolina 27834

Catalog Year
1976-78

contact person:
Dr. William H. Moore
Department Chairperson
(919) 756-3130

program title: Agricultural Chemicals Technology
emphasis: Appropriate application and alternative
procedures
department: Agricultural Programs
degree: 2 year

PURDUE UNIVERSITY

West Lafayette, Indiana 47907

**Catalog Year
1976-78**

contact person:

**Dr. Gary P. Carlson, Associate Professor
Toxicology
(317) 493-9218**

program title: **Toxicology**

department: **Pharmacology & Toxicology**

degree: **4 year**

PURDUE UNIVERSITY

West Lafayette, Indiana 47907

**Catalog Year
1975-77**

contact person:

**Dr. E. E. Ortmann, Head
Department of Entomology
(317) 493-9185**

program title: **Entomology or Urban & Industrial Pest
Control Options**

department: **Entomology (School of Agriculture)**

degree: **4 year**

REEDLEY COLLEGE

**995 North Reed Avenue
Reedley, California 93654**

**Catalog Year
1977-78**

**contact person:
Mr. Charles J. Cekola
Professor
(209) 638-3641**

**program title: Plant Science
department: Plant Science
degree: Certificate
2 year**

ROBESON TECHNICAL INSTITUTE

**Drawer A
Lumberton, North Carolina 28358**

**Catalog Year
1975-77**

**contact person:
Mr. Fred Williams
Dean of Instruction
(919) 738-7101**

**program title: Agricultural Science
emphasis: Pesticides and fertilizers-formulation
and use
degree: 2 year**

**RUTGERS
STATE UNIVERSITY OF NEW JERSEY**

New Brunswick, New Jersey 08903 Catalog Year
1978-79

contact person:
Dr. H. Streu, Director
Graduate Programs in Entomology and
Economic Zoology
(201) 932-9774

program title: Entomology and Economic Zoology
emphasis: Insect toxicology, pesticide & residue
chemistry, insect pest management
department: Entomology and Economic Zoology
degree: Graduate

**RUTGERS
STATE UNIVERSITY OF NEW JERSEY**

JSH 203, Georges Road Laboratories Catalog Year
Cook Campus 1976-78
Rutgers University
New Brunswick, New Jersey 08903

contact person:
Dr. H. Streu, Director
Graduate Programs in Entomology &
Economic Zoology
(201) 932-9774

program title: Biology (option in Entomology,
undergraduate) Entomology and
Economic Zoology
emphasis: Environmental biology; biological
problems of aquatic environment,
pest management
department: Biology; Entomology & Economic Zoology
degree: 4 year
Graduate

SADDLEBACK COLLEGE

2800 Marguerite Parkway
Mission Viejo, California 92675

Catalog Year
- 1977-78

contact person:
Director
Pest Control Technician Program
(714) 831-9700

program title: **Pest Control Technician**
department: **Agriculture**
degree: **Certificate**

SAINT JOHN'S UNIVERSITY

Jamaica, New York 11439

Catalog Year
1977-79

contact person:
Dr. Andrew J. Bartilucci, Dean
College of Pharmacy
(212) 969-8000

program title: **Toxicology**
department: **College of Pharmacy and Allied Health**
Professions
degree: **4 year**
Graduate

comments: **Coordinated with other programs in the**
University.

SAN JOSE STATE UNIVERSITY

**125 South Seventh Street
San Jose, California 95192**

**Catalog Year
1976-78**

contact person:
**Dr. Joseph H. Young
Chairperson
(405) 277-2000**

*program title: **Entomology**
department: **Biological Sciences**
degree: **4 year**

comments: **Also offered as a minor.**

SAN JOSE STATE UNIVERSITY

San Jose, California 95192

**Catalog Year
1976-78**

contact person:
**Dr. Joseph H. Young
Chairperson
(408) 277-2355**

program title: **Entomology**
department: **Biological Sciences**
degree: **4 year
Graduate**

comments: **Also offered as a minor. Beginning Fall, 1978, the University offered a new Program in Toxicology at the Master of Arts level. The Program includes instruction on the effects of herbicides, pesticides, rodenticides and other biocides, on living systems.**

SOUTH DAKOTA STATE UNIVERSITY

Brookings, South Dakota 57006

**Catalog Year
1976-78**

contact person:

**Dr. Robert Walstrom, Professor
Head of the Department
(605) 688-4111**

program title: Entomology

department: Entomology and Zoology

**degree: 4 year
Graduate**

SOUTH DAKOTA STATE UNIVERSITY

College of Pharmacy

Brookings, South Dakota 57006

**Catalog Year
1976-78**

contact person:

**Dr. Bernard E. Hietbrink, Professor
Pharmacy
(605) 688-4111**

***program title: General Toxicology**

department: Pharmacology Department

degree: 4 year

STATE FAIR COMMUNITY COLLEGE

**1900 Clarendon Road
Sedalia, Missouri 65301**

**Catalog Year
1976-78**

contact person:

**Dr. Nila Hibdon, Dean
Vocational - Technical Education
(816) 826-7100**

program title: **Agricultural Chemicals**
department: **Vocational - Technical Education**
degree: **2 year**

STATE UNIVERSITY OF NEW YORK AT ALFRED

**Agricultural & Technical College
Alfred, New York 14802**

**Catalog Year
1976-77**

contact person:

**Dr. Wallace McDonald, Chairperson
Plant & Animal Science Department
(607) 871-6111**

program title: **Agronomy and Environmental Protection**
emphasis: **Air pollution, pest management**
department: **Division of Agriculture
Plant and Animal Science Department**
degree: **2 year**

**STATE UNIVERSITY OF NEW YORK AT
FARMINGDALE**

**Melville Road
Farmingdale, New York 11735**

**Catalog Year
1977-78**

contact person:

**Dr. Harvey E. Barke, Chairperson
Biological Technology
(516) 420-2175**

program title: **Pest Control Technology**

emphasis: **Basic foundation in the sciences such
as chemistry, biology, botany and
zoology**

department: **Biological Technology**

degree: **2 year**

STATE UNIVERSITY OF NEW YORK AT SYRACUSE

**College of Environmental
Science & Forestry
Syracuse, New York 13210**

**Catalog Year
1977-78**

contact person:

**Dr. John B. Simeone, Professor & Chairperson
Department of Environmental & Forest
Biology
(315) 473-8611**

program title: **Entomology (area of concentration)**

emphasis: **Environmental entomology; biological
control; toxicology; detoxification
mechanisms**

department: **School of Biology, Chemistry and
Ecology, Departments of Chemistry,
Environmental and Forest Biology**

degree: **Graduate**

SUMTER AREA TECHNICAL COLLEGE

**506 Guignard Drive
Sumter, South Carolina 29150**

**Catalog Year
1976-77**

**contact person:
Mr. Raymond S. Rollings, Chairperson
Technical Division
(803) 773-9371**

**program title: Agricultural Chemicals and Mechanization
Technology
emphasis: The use, calibration and safe handling
of agricultural chemicals.
department: Technical Division
degree: 2 year**

TEXAS A & M UNIVERSITY AT COLLEGE STATION

College Station, Texas 77843

**Catalog Year
1977-78**

**contact person:
Dr. Howard Ernest Joham
Professor & Head of the Department
(713) 845-7311**

**program title: Bio-Environmental Sciences
emphasis: Plant Protection Option
department: Plant Sciences
degree: 4 year**

TEXAS A & M UNIVERSITY AT COLLEGE STATION

College Station, Texas 77843

**Catalog Year
1977-78**

contact person:

**Dr. J. K. Olson, Associate Professor
Entomology & Acting Head of the Dept.
(713) 845-2516**

**program title: Entomology
emphasis: Pest Management Option
department: Entomology
degree: 4 year**

TEXAS A & M UNIVERSITY AT COLLEGE STATION

College Station, Texas 77843

**Catalog Year
1977-78**

contact person:

**Dr. J. K. Olson, Associate Professor
Entomology and Acting Head of the Dept.
(713) 845-2516**

**program title: Entomology
department: Entomology
degree: Graduate**

TEXAS A & M UNIVERSITY AT KINGSVILLE

Kingsville, Texas 78363

**Catalog Year
1976-77**

contact person:
**Dr. Leo L. Bailey, Professor
Agriculture
(512) 595-3711**

program title: **Plant and Soil Science**
emphasis: **Environmental Management**
department: **College of Agriculture**
degree: **4 year
Graduate**

TEXAS TECH UNIVERSITY

Lubbock, Texas 79409

**Catalog Year
1977-78**

contact person:
**Dr. Darryl P. Sanders, Professor
Chairperson, Entomology
(806) 742-2011**

program title: **Entomology**
department: **Entomology**
degree: **4 year
Graduate**

UNIVERSITY OF ARIZONA

Tucson, Arizona 85721

**Catalog Year
1978**

contact person:

**Dr. J. Wesley Clayton, Director
Toxicology Program
(602) 626-3027**

program title: Undesignated

department: Toxicology

degree: Graduate

UNIVERSITY OF ARIZONA

Tucson, Arizona 85721

**Catalog Year
1977-79**

contact person:

**Dr. Robert P. Upchurch
Head of the Department
(602) 884-2751**

***program title: Plant Sciences**

department: Plant Sciences

degree: 4 year

Graduate

**comments: Designed to develop understandings of plant
disease pathogens, host reaction to infection and means to
control or prevent diseases of plants.**

UNIVERSITY OF ARIZONA

Tucson, Arizona 85721

**Catalog Year
1977-79**

contact person:
Dr. George W. Ware, Jr.
Head of the Department
(602) 884-1151

program title: **Entomology**
department: **Entomology**
degree: **4 year**
Graduate

UNIVERSITY OF ARIZONA

Tucson, Arizona 85721

**Catalog Year
1977-79**

contact person:
Dr. Theo F. Watson, Chairperson
Plant Protection Committee
(602) 884-1933

program title: **Plant Protection**
department: **Interdepartmental**
degree: **4 year**

UNIVERSITY OF ARKANSAS

Fayetteville, Arkansas 72701

**Catalog Year
1977-78**

contact person:

Dean

**College of Agriculture & Home Economics
(501) 575-2000**

***program title: Plant Protection/Pest Management
emphasis: Option A - Core Curriculum; Option B -
Entomology, Option C - Plant Pathology
department: Interdepartmental
degree: 4 year**

UNIVERSITY OF ARKANSAS

Fayetteville, Arkansas 72701

**Catalog Year
1976-77**

contact person:

Dr. Floyd D. Miner, Professor

Head of Entomology

(501) 575-2000

**program title: Entomology
department: Entomology
degree: 4 year
Graduate**

UNIVERSITY OF ARKANSAS MEDICAL CENTER

**4301 West Markham
Little Rock, Arkansas 72701**

**Catalog Year
1977-78**

contact person:
**Dr. Manford D. Morris
Program Director
(501) 661-5454**

*program title: **Graduate Studies in Interdisciplinary
Toxicology**
department: **Pediatrics Department**
degree: **Graduate**

UNIVERSITY OF ARKANSAS MEDICAL CENTER

**4301 West Markham
Little Rock, Arkansas 72201**

**Catalog Year
1977-78**

contact person:
**Dr. Joan M. Spyker
Program Director
(501) 661-5454**

*program title: **Interdisciplinary Toxicology Graduate
Program**
department: **Interdepartmental**
degree: **Graduate**
comments: **Interdisciplinary Toxicology - Collaborative
between University and National Center for toxicological
research.**

UNIVERSITY OF CALIFORNIA AT BERKELEY

Berkeley, California 94720

**Catalog Year
1977-78**

contact person:
Dr. John T. Doyen
Undergraduate Advisor

Dr. R. H. Dodd
Graduate Advisor
(415) 642-6000

program title: **Entomology**
department: **Entomology**
degree: **4 year**
Graduate

UNIVERSITY OF CALIFORNIA AT BERKELEY

Berkeley, California 94720

**Catalog Year
1977-78**

contact person:
Dr. Louis A. Falcon
Program Director
(415) 642-6000

program title: **Pest Management**
department: **Pest Management**
degree: **4 year**

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California 95616

**Catalog Year
1976-77**

contact person:

**Dr. Albert A. Grigarick, Jr.
Professor
(916) 752-1011**

**program title: Plant Protection and Pest Management
emphasis Integrated Pest Management
department: Interdepartmental
degree: Graduate**

UNIVERSITY OF CALIFORNIA AT DAVIS

**College of Agriculture and
Environmental
Davis, California 95616**

**Catalog Year
1976-78**

contact person:

**Dr. Wendell W. Kilgore
Chairperson of the Department
(916) 752-1011**

**program title: Environmental Toxicology
department: Environmental Toxicology
degree: Graduate**

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California 95616

**- Catalog Year
1976-77**

contact person:

Dr. J. M. Lyons

Associate Dean

(916) 752-0819

*** program title: Entomology**

**department: Plant Sciences and Pest & Disease
Management**

**degree: 4 year
Graduate**

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California 95616

**Catalog Year
1976-77**

contact person:

Dr. D. R. Nielsen

Associate Dean

(916) 752-0110

program title: Environmental Toxicology

department: Resources Sciences and Engineering

degree: 4 year

UNIVERSITY OF CALIFORNIA AT DAVIS

**Graduate Division
Davis, California 95616**

**Catalog Year
1976-78**

contact person:
**Dr. Larry G. Stark
Chairperson
(916) 752-3200**

program title: **Pharmacology and Toxicology**
department: **Graduate Group in Pharmacology
and Toxicology**
degree: **Graduate**

UNIVERSITY OF CALIFORNIA AT DAVIS

Davis, California 95616

**Catalog Year
1976-77**

contact person:
**Dr. Theodore C. West
Director
(916) 752-1011**

*program title: **Pharmacology and Toxicology**
emphasis: **Toxicology**
department: **Medical Learning Resources, School
of Medicine**
degree: **Graduate**

UNIVERSITY OF CALIFORNIA AT RIVERSIDE

Riverside, California 92502

**Catalog Year
1977-78**

contact person:
Dr. William H. Ewartt
Chairperson of the Committee
(714) 787-1012

program title: **Pest Management**
department: **Entomology**
degree: **4 year**
Graduate

UNIVERSITY OF CALIFORNIA AT RIVERSIDE

Riverside, California 92502

**Catalog Year
1977-78**

contact person:
Dr. Francis A. Gunther
Chairperson
(714) 787-1012

program title: **Entomology**
emphasis: **Insect toxicology; insect physiology;
and/or biochemistry at the graduate
level**
department: **Entomology**
degree: **4 year**
Graduate

UNIVERSITY OF CINCINNATI

**311 Kettering Laboratory
Cincinnati, Ohio 45267**

**Catalog Year
1976-77**

**contact person:
Dr. Paul B. Hammond
Department of Environmental Health
(513) 872-5745**

**program title: Toxicology
department: Environmental Health
degree: Graduate**

UNIVERSITY OF DELAWARE

Newark, Delaware 19711

**Catalog Year
1977**

**contact person:
Dr. D. F. Bray, Chairperson
Department of Entomology and Applied
Ecology
(302) 738-2526**

**program title: Entomology and Applied Ecology
emphasis: All aspects of entomology and field
& research ecology
department: Entomology and Applied Ecology
degree: 4 year**

UNIVERSITY OF FLORIDA

**College of Agriculture
Gainesville, Florida 32611**

**Catalog Year
- 1977-78**

contact person:

**Dr. L. H. Purdy, Chairperson
Department of Plant Pathology
(904) 392-1861**

program title: Pest Management and Plant Protection

emphasis: Crop protection

department: Pest Management

degree: 4 year

Graduate

**comments: Students may major in one of the following
programs in the College of Agriculture: Agronomy,
Entomology, Nematology, Fruit crops, Ornamental
Horticulture, Plant Pathology, Plant Sciences, or Vegetable
crops.**

UNIVERSITY OF GEORGIA

Athens, Georgia 30602

**Catalog Year
1977-79**

contact person:

**Dr. Preston Hunter, Division Chairperson
Head of Department of Entomology
(404) 542-2816**

program title: Entomology

emphasis: Insect control

department: Entomology

degree: 4 year

Graduate

UNIVERSITY OF GEORGIA

Athens, Georgia 30602

**Catalog Year
1977-79**

contact person:

**Dr. W. N. Garrett, Division Chairperson
Head of Plant Pathology/Plant Genetics
(404) 542-3924**

program title: Plant Pathology

emphasis: Plant diseases and their control

department: Plant Pathology and Genetics

**degree: 4 year
Graduate**

UNIVERSITY OF GEORGIA

Athens, Georgia 30602

**Catalog Year
1977-79**

contact person:

**Dr. W. N. Garrett, Division Chairperson
Head of Plant Pathology/Plant Genetics
(404) 542-3924**

program title: Pest Management and Plant Protection

emphasis: Integrated pest management techniques

**department: Plant Pathology, Entomology, Agronomy,
and Horticulture**

**degree: 4 year
Graduate**

UNIVERSITY OF IDAHO

Moscow, Idaho 83843

**Catalog Year
1978-79**

contact person:
**Dr. Auttis M. Mullins, Dean
College of Agriculture
(208) 885-6111**

program title: **Entomology**
department: **Entomology**
degree: **4 year
Graduate**

UNIVERSITY OF IDAHO

Moscow, Idaho 83843

**Catalog Year
1978-79**

contact person:
**Dr. Auttis M. Mullins, Dean
College of Agriculture
(208) 885-6111**

program title: **Plant Protection**
department: **Plant and soil science**
degree: **4 year**
comments: **This program integrates the fields of entomology,
plant pathology and weed science.**

**UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN**

Urbana, Illinois 61801

**Catalog Year
1976-77**

contact person:
Dr. Stanley Friedman
Department of Entomology
(217) 333-2910

program title: **Pest Management**
department: **Entomology**
degree: **Graduate**

**UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN**

583 Morrill Hall
Urbana, Illinois 61801

**Catalog Year
1976-78**

contact person:
Dr. Robert L. Metcalf, Director
Environmental Toxicology
(217) 333-1000

*program title: **Environmental Toxicology**
department: **Interdepartmental**
degree: **Graduate**

UNIVERSITY OF IOWA

**Oakdale, Campus
Iowa City, Iowa 52242**

**Catalog Year
1976-78**

contact person:

**Dr. Keith P. Long, Dr. Donald P. Morgan
Professors, Toxicology
(319) 353-4872**

program title: **Environmental Toxicology**

department: **Institute of Agricultural Medicine &
Environmental Health**

degree: **Graduate**

UNIVERSITY OF KANSAS

**School of Pharmacy
Lawrence, Kansas 66045**

**Catalog Year
1976-77**

contact person:

**Dr. Charles O. Rutledge, Chairperson
Pharmacology & Toxicology
(913) 864-4002**

program title: **Pharmacology & Toxicology**

department: **School of Pharmacy**

degree: **4 year
Graduate**

THE UNIVERSITY OF KANSAS MEDICAL CENTER

**College of Health Sciences
& Hospital
Kansas City, Kansas 66103**

**Catalog Year
1978**

contact person:
**Dr. Curtis Klaassen
Professor
(913) 588-5201**

program title: **Environmental Toxicology**
department: **Pharmacology**
degree: **Graduate**

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

**Catalog Year
1976-77**

contact person:
**Dr. Samuel F. Conti, Director
Biological Sciences
(606) 258-9000**

program title: **Undesignated**
emphasis: **Pest identification and population control**
department: **Biological Sciences**
degree: **4 year
Graduate**

UNIVERSITY OF KENTUCKY

Lexington, Kentucky 40506

**Catalog Year
1977**

contact person:
Dr. Timor Z. Cszaky
Professor
(606) 258-9000

*program title: **Environmental Toxicology**
department: **Toxicology**
degree: **Graduate**

UNIVERSITY OF MAINE AT ORONO

306 Deering Hall
Orono, Maine 04473

**Catalog Year
1977-78**

contact person:
Dr. John B. Dimond, Professor
Environmental Science
(207) 581-1110

*program title: **Pest Management Environmental
Monitoring**
department: **Entomology**
degree: **Graduate**

UNIVERSITY OF MAINE AT ORONO

**College of Life Sciences &
Agriculture
Orono, Maine 04473**

**Catalog Year
1977-78**

contact person:
**Dr. John Barnet Dimond, Professor
Environmental Science
(207) 581-1110**

* program title: **Entomology**
department: **Life Sciences Division - Biological
Sciences**
degree: **4 year**

UNIVERSITY OF MARYLAND

**Symons Hall, Rm. 1304
Dept. of Entomology
University of Maryland
College Park, Maryland 20742**

**Catalog Year
1976-77**

contact person:
**Dr. Galen P. Dively, Associate Professor
Entomology
(301) 454-0100**

program title: **Pest Management Option**
emphasis: **Trains persons as pest management
specialists**
department: **Entomology**
degree: **Graduate**
comments: **Non-thesis M.S. option with field experience.**

UNIVERSITY OF MASSACHUSETTS AT AMHERST

Amherst, Massachusetts 01002

**Catalog Year
1975-76**

contact person:

**Dr. John G. Stoffolano,
Associate Professor & Acting Chairperson
(413) 545-0111**

***program title: Entomology
emphasis: Pest management
department: Entomology
degree: 4 year
Graduate**

UNIVERSITY OF MASSACHUSETTS AT AMHERST

**College of Food and Natural Resources
Amherst, Massachusetts 01002**

**Catalog Year
1976-77**

contact person:

**Dr. Arless A. Spielman, Dean
College of Food and Natural Resources
(413) 545-0111**

***program title: Entomology/Environmental Sciences
department: Entomology/Environmental Sciences
degree: 4 year**

UNIVERSITY OF MICHIGAN

**Toxicology Research Lab.
3550 School of Public Health
Ann Arbor, Michigan 48109**

**Catalog Year
1978**

**contact person:
Dr. Herbert H. Cornish
Professor
(313) 764-1817**

***program title: Environmental Toxicology
department: Environmental & Industrial Health
degree: Graduate**

UNIVERSITY OF MID-AMERICA

**P.O. Box 82006
Lincoln, Nebraska 68501**

**Catalog Year
1977**

**contact person:
Mr. Milan Wall
Office of Marketing
(402) 467-3671**

**program title: Pests, Pesticides & Pesticides Safety
(5 units)
department: Consortium of midwestern state
universities (Iowa, Kansas, Minnesota,
Missouri, Nebraska, South Dakota)
degree: Graduate
comments: Integrated multimedia packages combining
television, print, newspaper, & audio components for use
at home.**

UNIVERSITY OF MISSISSIPPI

**Oxford Campus
University, Mississippi 38677**

**Catalog Year
1977**

contact person:

**Dr. Lawrence W. Masten, Assistant Professor
Pharmacology and Toxicology
(601) 232-7330**

program title: **Environmental Toxicology**

emphasis: **Mechanism of action, methodology**

department: **School of Pharmacy**

degree: **Graduate**

UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

**2500 North State Street
Jackson, Mississippi 39216**

**Catalog Year
1977**

contact person:

**Dr. William O. Berndt, Professor & Chair-
person
Department of Pharmacology & Toxicology
(601) 968-4729**

program title: **Environmental Toxicology**

emphasis: **Studies on mechanisms by which
naturally occurring and man made
environmental pollutants exert their
toxic effects.**

department: **Pharmacology and Toxicology**

degree: **Graduate**

UNIVERSITY OF NEBRASKA MEDICAL CENTER

**Department of Pharmacodynamics
& Toxicology
Omaha, Nebraska 68105**

**Catalog Year
1977-78**

contact person:

**Dr. Charles F. Ryan
Associate Professor & Chairperson
(402) 541-7974**

program title: **General Toxicology**

department: **Pharmacodynamics & Toxicology**

degree: **Graduate**

UNIVERSITY OF NEVADA

Reno, Nevada 89557

**Catalog Year
1978**

contact person:

**Dr. Dale W. Bohmont, Dean
College of Agriculture
(702) 784-1110**

program title: **Pest Control (Option)**

emphasis: **Entomology, Plant Control, Weed Control**

department: **Agriculture**

degree: **4 year**

Graduate

comments: **The college of Agriculture, University of Nevada,
is investigating the feasibility of establishing a Division of
Plant and Animal Protection that will absorb the Pest
Control Option now listed under Agriculture.**

UNIVERSITY OF NEW HAMPSHIRE

Durham, New Hampshire 03824

**Catalog Year
1975-76**

contact person:

**Dr. Harry A. Keener, Dean
Life Sciences and Agriculture
(603) 862-1234**

program title: **Entomology**

emphasis: **Pest management**

department: **College of Life Sciences and Agriculture**

degree: **2 year**

4 year

Graduate

UNIVERSITY OF NEW MEXICO

**College of Pharmacy
Albuquerque, New Mexico 87131**

**Catalog Year
1977**

contact person:

**Dr. William Hadley, Professor
Pharmacy
(505) 277-0111**

*program title: **Environmental Toxicology**

department: **Pharmacology Department**

degree: **4 year**

**UNIVERSITY OF NORTH CAROLINA
AT CHAPEL HILL**

Chapel Hill, North Carolina 27514

**Catalog Year
1977**

contact person:

**Dr. Betsy J. Stover, Professor & Director
Graduate Training Program
(919) 966-1080**

program title: Environmental Toxicology

**emphasis: Modes of toxicity of air pollutants,
pesticides, heavy metals, radiation
and drugs.**

**department: Medical School Departments of
Pharmacology, Biochemistry, Medicine,
Pathology and Neurology; Schools
of Pharmacy and Public Health**

degree: Graduate

UNIVERSITY OF OKLAHOMA

**College of Pharmacy
644 N.E. 14th Street HSC
Oklahoma City, Oklahoma 73190**

**Catalog Year
1978**

contact person:

**Dr. Joseph A. Rieger & Dr. Casey Robinson
Associate Professors
(405) 271-6484**

program title: Insecticides

**department: Pharmacodynamics and Toxicology
Department**

degree: Graduate

UNIVERSITY OF RHODE ISLAND

Kingston, Rhode Island 02881

**Catalog Year
1977-78**

contact person:

**Dr. John J. Defeo
Chairperson & Professor
(401) 792-2775**

program title: **Pharmacology and Toxicology**
emphasis: **Environmental and marine toxicology**
department: **Pharmacy**
degree: **Graduate**

UNIVERSITY OF RHODE ISLAND

Kingston, Rhode Island 02881

**Catalog Year
1977-78**

contact person:

**Dr. Aloys A. Michel, Dean
The Graduate School
(401) 792-2262**

program title: **Food and Resource Chemistry**
emphasis: **Pesticide chemistry**
department: **Food Sciences**
degree: **Graduate**

UNIVERSITY OF RHODE ISLAND

Kingston, Rhode Island 02881

**Catalog Year
1977-78**

contact person:

Dr. Traxler

Chairperson

(401) 792-2221

program title: **Plant Pathology - Entomology**

emphasis: **Entomology (insectology, pest
management)**

department: **Biological Sciences**

degree: **Graduate**

UNIVERSITY OF ROCHESTER

Rochester, New York 14642

**Catalog Year
1977-78**

contact person:

Dr. J. Crispin Smith

Program Director, Associate Professor

(716) 275-3911

program title: **Toxicology Training Program**

emphasis: **Research opportunities in environmental
behavioral, reproductive and develop-
mental toxicology, biochemical
toxicology and inhalation toxicology.**

department: **Pharmacology and Toxicology;
Department of Radiation Biology and
Biophysics; School of Medicine and
Dentistry.**

degree: **Graduate**

UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER

**7703 Floyd Curl Drive
San Antonio, Texas 78284**

**Catalog Year
1977-78**

**contact person:
Dr. Williams B. Stavimoha
Director
(512) 696-6011**

***program title: Basic Toxicology
department: Pharmacology Department
degree: Graduate**

UNIVERSITY OF TEXAS MEDICAL BRANCH

**301 University Blvd.
Graduate School of Biomedical Science
Galveston, Texas 77550**

**Catalog Year
1977-79**

**contact person:
Dr. Walter J. Decker
Director
(713) 765-1011**

***program title: Environmental Toxicology
department: Preventative Medicine and Community
Health Department
degree: Graduate**

UNIVERSITY OF UTAH

**Colleges of Pharmacy and Medicine
Salt Lake City, Utah 84132**

**Catalog Year
1977-79**

contact person:
**Dr. James W. Gibb, Professor
Pharmacology and Chairperson
Biochemical pharmacology and Toxicology
(801) 581-6287**

program title: **Graduate Studies in Biochemical and
Toxicology**
department: **Biochemical, Pharmacology and
Toxicology**
degree: **Graduate**

UNIVERSITY OF WISCONSIN

**School of Pharmacy
425 N. Charter Street
Madison, Wisconsin 53706**

**Catalog Year
1975-77**

contact person:
**Dr. Richard E. Peterson
Professor
(608) 262-1234**

*program title: **Environmental Toxicology**
department: **Environmental Toxicology**
degree: **4 year
Graduate**

UNIVERSITY OF WISCONSIN

**Center for Environmental Toxicology
1550 Linden Drive
Madison, Wisconsin 53706**

**Catalog Year
1975-77**

**contact person:
Dr. Ronald D. Hinsdill
Director
(608) 263-4580**

**program title: Environmental Toxicology
emphasis: The study of chemicals in the
environment which may be harmful
to living organisms
department: Environmental Toxicology
degree: Graduate**

UNIVERSITY OF WYOMING

**P.O. Box 3334
University Station
Laramie, Wyoming 82071**

**Catalog Year
1977-78**

**contact person:
Dr. Leroy I. Painter
Professor
(307) 766-4121**

**program title: Entomology
department: Plant Science Division, Entomology
Section
degree: 4 year
Graduate**

UTAH STATE UNIVERSITY

**College of Agriculture
UMC 56
Logan, Utah 84322**

**Catalog Year
1976-78**

contact person:

**Dr. R. P. Sharma, Associate Professor
Toxicology
(801) 752-4100**

**program title: Environmental Toxicology
department: Interdepartmental Curriculum
degree: Graduate**

WASHINGTON STATE UNIVERSITY

Pullman, Washington 99163

**Catalog Year
1976-77**

contact person:

**Dr. Robert F. Harwood, Chairperson
Graduate Entomology
(509) 335-5504**

**program title: Entomology
department: Entomology
degree: 4 year
Graduate**

WEST VIRGINIA UNIVERSITY

**Morgantown, West Virginia 26506 Catalog Year
1976-77**

contact person:
**Dr. Mannon E. Gallegly, Director
Division of Plant Sciences
(304) 293-0111**

program title: **Plant and Soil Science**
emphasis: **Options in "Environmental Protection
in Agriculture" and "Soil Science"**
department: **Division of Plant Sciences**
degree: **4 year**

WEST VIRGINIA UNIVERSITY

**Morgantown, West Virginia 26506 Catalog Year
1976-77**

contact person:
**Dr. J. H. Kelley, Dean
College of Mineral and Energy Resources
(304) 293-0111, or 5695**

*program title: **Agriculture - Plant and Soil Sciences**
emphasis: **Interest Area in Environmental
Protection (insect and disease control),
pest control chemistry**
department: **College of Agriculture and Forestry**
degree: **4 year**

WESTCHESTER COMMUNITY COLLEGE

**75 Grasslands Road
Valhalla, New York 10595**

**Catalog Year
1977-79**

contact person:

Dr. Paul Barkan

Professor

(914) 347-6839

program title: Toxicology

**emphasis: Cooperative program with Westchester
Co. Med. Examiners Allied Health
Progress Office and the St. John's
College of Pharmacy; Transfer
program to the third year of the B.S.
program in Toxicology at St. John's
University**

degree: 2 year

comments: Internship in Medical Examiner's Office

APPENDIX
Programs, Listed by State

STATE	INSTITUTION	PAGE

ALABAMA	Alabama A & M University.....	11
	Gadsden State Junior College.....	20
ARIZONA	Arizona State University.....	12
	University of Arizona.....	47
	University of Arizona.....	47
	University of Arizona.....	48
	University of Arizona.....	48
ARKANSAS	University of Arkansas.....	49
	University of Arkansas.....	49
	University of Arkansas Medical Center.....	50
	University of Arkansas Medical Center.....	50
CALIFORNIA	California State University at Northridge.....	13
	Consumnes River College.....	16
	Reedley College.....	37
	Saddleback College.....	39
	San Jose State University.....	40
	San Jose State University.....	40
	University of California at Berkeley.....	51
	University of California at Berkeley.....	51
	University of California at Davis	52

STATE	INSTITUTION	PAGE

CALIFORNIA (cont'd.)	University of California at Davis	52
	University of California at Davis	53
	University of California at Davis	53
	University of California at Davis	54
	University of California at Davis	54
	University of California at Riverside.....	55
	University of California at Riverside.....	55
COLORADO	Colorado State University.....	16
DELAWARE	University of Delaware.....	56
FLORIDA	Broward Community College.....	12
	Florida A & M University.....	20
	University of Florida.....	57
GEORGIA	University of Georgia.....	57
	University of Georgia.....	58
	University of Georgia.....	58
IDAHO	Idaho State University.....	21
	University of Idaho	59
	University of Idaho.....	59
ILLINOIS	Elgin Community College.....	19
	Loyola University of Chicago.....	23
	University of Illinois at Urbana- Champaign.....	60

STATE	INSTITUTION	PAGE

ILLINOIS (cont'd.)	University of Illinois at Urbana- Champaign.....	60
INDIANA	Indiana University.....	22
	Purdue University.....	36
	Purdue University.....	36
IOWA	Drake University.....	17
	University of Iowa.....	61
KANSAS	Kansas State University.....	22
	Kansas State University.....	23
	University of Kansas, School of Pharmacy, Lawrence.....	61
	University of Kansas, Medical Center.....	62
KENTUCKY	University of Kentucky.....	62
	University of Kentucky.....	63
LOUISIANA	Delgado College.....	17
	Louisiana State University.....	24
	Louisiana State University.....	24
	Northeast Louisiana University..	31
MAINE	University of Maine at Orono....	63
	University of Maine at Orono....	64
MARYLAND	University of Maryland.....	64
MASSACHUSETTS	Harvard University School of Public Health.....	21
	North Shore Community College	30
	University of Massachusetts at Amherst	65
	University of Massachusetts at Amherst.....	65

STATE	INSTITUTION	PAGE

MICHIGAN	Ferris State College.....	19
	Michigan State University.....	25
	Michigan State University.....	26
	University of Michigan.....	66
MISSISSIPPI	Mississippi State University.....	26
	Mississippi State University.....	26
	University of Mississippi.....	67
	University of Mississippi Medical Center.....	67
MISSOURI	State Fair Community College...	42
NEBRASKA	Central Technical Community College.....	13
	University of Mid-America.. ..	66
	University of Nebraska Medical Center.....	68
	University of Nevada.....	68
NEVADA	University of Nevada.....	69
NEW HAMPSHIRE	University of New Hampshire....	38
NEW JERSEY	Rutgers, The State University of New Jersey.....	38
	Rutgers, The State University of New Jersey.....	38
NEW MEXICO	New Mexico State University.....	69
	University of New Mexico.....	39
NEW YORK	Saint John's University.....	42
	State University of New York...	43
	State University of New York...	43
	State University of New York...	43
	University of Rochester.....	72
	Westchester Community College	78

STATE	INSTITUTION	PAGE

NORTH CAROLINA	Anson Technical Institute.....	11
	Duke University.....	18
	Duke University.....	18
	North Carolina State University	28
	North Carolina State University	28
	North Carolina State University	29
	Pitt Technical Institute.....	35
	Robeson Technical Institute.....	37
	University of North Carolina at Chapel Hill.....	70
NORTH DAKOTA	North Dakota State University..	29
	North Dakota State University..	30
OHIO	Cleveland State University.....	15
	Ohio State University.....	32
	University of Cincinnati.....	56
OKLAHOMA	Northeastern Oklahoma A & M College.....	31
	Oklahoma State University.....	32
	Oklahoma State University.....	33
	University of Oklahoma.....	70
OREGON	Clackamas Community College..	14
	Clatsop Community College.....	14
	Oregon State University.....	33
	Oregon State University.....	34
	Oregon State University.....	34
PENNSYLVANIA	Pennsylvania State University...	35
RHODE ISLAND	University of Rhode Island.....	71
	University of Rhode Island.....	71
	University of Rhode Island.....	72

STATE	INSTITUTION	PAGE

SOUTH CAROLINA	Clemson University.....	15
	Sumter Area Technical College..	44
SOUTH DAKOTA	South Dakota State University..	41
	South Dakota State University..	41
TENNESSEE	Meharry Medical College.....	25
TEXAS	Texas A & M University at College Station.....	44
	Texas A & M University at College Station.....	45
	Texas A & M University at College Station.....	45
	Texas A & M University at Kingsville.....	46
	Texas Tech University.....	46
	University of Texas Health Science Center.....	73
	University of Texas Medical Branch.....	73
	University of Utah.....	74
	Utah State University.....	76
WASHINGTON	Washington State University.....	76
WEST VIRGINIA	West Virginia University.....	77
	West Virginia University.....	77
WISCONSIN	University of Wisconsin.....	74
	University of Wisconsin.....	75
WYOMING	University of Wyoming.....	75